

## *Final Agenda*

### **TBPOC CONFERENCE CALL August 27, 2013, 2:00pm – 3:00pm**

	<b>Topic</b>	<b>Presenter</b>	<b>Time</b>	<b>Desired Outcome</b>
<b>1.</b>	<b>CHAIR'S REPORT</b>	S. Heminger, BATA		Information
<b>2.</b>	<b>CONSENT CALENDAR</b> a. Contract Change Orders (CCOs) 1. YBITS1 CCO 563-S0, OTD Detour Westbound Demolition* 2. YBITS1 CCO 564-S2, Temporary Bike Path Ramp Structure*	D. Noel, CTC		Approval
<b>3.</b>	<b>SAN FRANCISCO-OAKLAND BAY BRIDGE UPDATES</b> a. SSO Update 1) Bridge Closure 2) LDW Construction Schedule* 3) PIO Update 4) Opening Ceremony  b. Testing Update	T. Anziano, CT D. Vilcheck, CT A. Gordon, BATA R. Rentschler, BATA  T. Anziano, CT	10 min 10 min 10 min 20 min  10 min	Information Information Information Information Information  Information
<b>4.</b>	<b>OTHER BUSINESS</b> a. Confirm TBPOC Meeting: 1) September 5, 1:00pm-4:00pm, Sacramento			
<b>Upcoming TBPOC Conference Calls:</b> <b>Wed, August 28, 2013, 4:00pm – 5:00pm</b> <b>Thurs, August 29, 2013, 4:00pm – 5:00pm</b> <b>Fri, August 30, 2013, 4:00pm – 5:00pm</b> <b>Sat, August 31, 2013, 4:00pm – 5:00pm</b> <b>Sun, September 1, 2013, 4:00pm – 5:00pm</b> <b>Mon, September 2, 2013, 4:00pm – 5:00pm</b>				

\* Attachments

\*\* Attachments in back of binder

\*\*\* Attachments to be sent under separate cover

## *Memorandum*

**TO:** Toll Bridge Oversight Committee (TBPOC)    **DATE:** August 27, 2013

**FR:** Dina Noel, Assistant Deputy Director Toll Bridge Program, CTC

**RE:** Agenda No. - 2a1  
Item - Consent Calendar – Contract Change Order(s)  
YBITS1 CCO 563-S0 – OTD Detour Westbound Demolition

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**Recommendation:**

**APPROVAL**

**Cost:**

YBITS1 CCO # 563-S0: \$3,227,800.00

**Schedule Impacts:**

NA

**Discussion:**

YBITS1 Change Order No. 563-S0 **in the amount of \$3,227,800.00** provides for the demolition of portions of the existing westbound structure after traffic is switched to the new Bay Bridge East Span. The work includes removing an approximately 800-foot long portion of the structure that will allow for the construction of the temporary bike path ramp structure, as well as demolition of concrete deck, steel girders, and concrete columns.

**Risk Management:**

The **\$3,227,800.00** fund request falls within the \$3, 462,000.00 amount budgeted for this work as approved by the TBPOC on February 01, 2011. As such, no risk management consideration is required.

**Attachment(s):**

1. YBITS CCO 563-S0
2. YBITS CCO 563-S0 Memo
3. Contract Change Order Implementation Strategy

**CONTRACT CHANGE ORDER**

Change Requested by: Engineer

CCO: 563	Suppl. No. 0	Contract No. 04 - 0120S4	Road SF-80-12.7/13.2	FED. AID LOC.: NO FED AID
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**To: M C M CONSTRUCTION INC**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. **NOTE: This change order is not effective until approved by the Engineer.**

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.) Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time. This last percentage shown is the net accumulated increase or decrease from the original quantity in the Engineer's Estimate.

Furnish all labor, material, and equipment necessary to demolish portions of the existing Oakland I-80 Bay Bridge Westbound structure from Bent E23 to Bent E39.

**Work includes:**

Demolish, and remove all barrier rail, deck, stringers, scaffold travelers and support rails, bracing, floor beams, girders, longitudinal beams, other members from Bent E23 to Bent E39. Columns at Bent E23 will remain in place. Columns from E24 through E33 adjacent to lower roadway will be demolished to lower roadway levels. Columns from E24 through E33 that are not connected to lower roadway will be demolished to 3 feet below existing grade, with footings and foundations to remain in place. From Bent E29 through E39, demolish and remove all pier walls, wing walls, strap beams, and approach slab of structure. Demolish and remove all pier walls, wing walls and strap beams to 3 feet below existing grade.

Work shall be performed in accordance with the following plans and protocols, or approved amendments, which have been prepared by the Contractor under previously issued change order number 538: Cleveland Wrecking Company Bridge Removal Plan dated November 8, 2012; and Cleveland Wrecking Company's Lead Compliance Plan dated July 31, 2013.

**Extra Work at Force Account:**

As authorized by the engineer, in accordance with Section 5-1.17 "Force Account Payment" of the Special Provisions and Section 4-1.03D "Extra Work" of the Standard Specifications, provide temporary lighting (light towers), roadway sweeping, lead paint abatement and air monitoring, deenergizing electrical utilities, disconnecting utilities, added demolition items not included in lump sums below, labor premium time not covered in lump sums below, place K-Rails at eastern end of upper deck upon completion of demolition operations (for proper fall protection); and other work as directed by the engineer.

Estimated cost of Extra Work at Force Account .....\$150,000.00

**Extra Work at Lump Sum:**

Demolish and dispose of the existing structures defined above in accordance with the requirements of this change order.

This work is anticipated to take place except as noted on the Seismic Safety Opening closure (SSO Closure), currently scheduled for Wednesday August 28, 2013, 8 PM, through Tuesday, September 3, 2013, 5 AM, including periods considered double time pay; or a substitute SSO Closure date if the operation is delayed.

**Work includes:**

Mobilize and demobilize all equipment and personnel to perform the demolition. Mobilization includes one mobilization operation for the work of this change order. Mobilization includes bringing several support track excavators and other pieces of equipment to be moved in from and returned to other locations including Southern California; and mobilizing and staffing sufficiently to meet the entire scope of work without any schedule delay.

Preparatory demolition (prior to the SSO Closure): includes removal of existing lost deck formwork at the underside of the detour structure (which was constructed in 2012 under Change Order No. 529 and supplements), through extremely limited access openings, with debris to be removed from the site prior to the SSO Closure. This work will be performed during normal daytime hours.

Establish laydown areas for stockpiling, sorting and handling demolition debris.

Work during the SSO Closure will be performed by multiple crews, with multiple shifts throughout the day (24 hrs per day).

**CONTRACT CHANGE ORDER**

Change Requested by: Engineer

CCO: 563	Suppl. No. 0	Contract No. 04 - 0120S4	Road SF-80-12.7/13.2	FED. AID LOC.: NO FED AID
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Contractor will provide sufficient staffing and equipment to complete items 1 through 9 below by 6 AM on Sunday (September 1 of the anticipated dates) of the SSO Closure. The following operations are scheduled during the SSO Closure:

1. Provide and place plywood on the lower roadway in order to protect the deck during the upper deck demolition. Upon completion of the upper deck demolition, remove demolition debris and plywood protection and clean roadway; all debris will be stockpiled at a nearby laydown area.
2. Remove upper deck between Bents E23 and E26. This will include mobilizing track excavators to the upper deck, utilizing lowbed transport trucks that will travel from San Francisco on the upper deck (traveling in the opposite direction of normal travel) toward Bent E23, passing through the Cantilever Bridge section.
3. Remove deck from Bents E26 through E33.
4. Remove and stockpile all broken concrete rubble and plywood protection from the lower roadway, stockpile in nearby laydown area.
5. Remove remaining deck reinforcement steel, remove stringers, scaffold travelers and bracing from Bent E23 through E33. A minimum of 4 crews will be scheduled for this operation; stockpile debris in nearby laydown area.
6. Remove intermediate floor beams between Bents E23 to E33. A minimum of 4 crews will be scheduled for this operation; stockpile debris in nearby laydown area.
7. Remove longitudinal beams between Bents E23 and E33. A minimum of 4 crews will be scheduled for this operation; stockpile debris in nearby laydown area.
8. Remove cross girders between Bent E23 and E33. A minimum of 4 crews will be scheduled for this operation; stockpile debris in nearby laydown area.
9. Remove concrete columns at Bents E24 to E33. Stockpile debris in nearby laydown area.
10. Remove balance of the barrier rail, deck, beams, pier wall, wing walls and approach slab of bridge structure between Bents E29 to E39. This work may extend to the time period after the SSO Closure. After the SSO Closure, the remaining work for this item will be done during normal weekday hours (during times when no overtime or Double time premiums apply). After the SSO Closure, for the remaining work, screen fabric netting protection will be installed in and around the work area during any demolition next to existing bridge structures, in addition to other dust control efforts.
11. Load, haul and dispose of demolition debris to off-site recycling or disposal facilities. After the SSO Closure, the remaining work for this item will be done during normal weekday hours (for times when no overtime or Double time premiums apply). After the SSO Closure, for the remaining work, screen fabric netting protection will be installed in and around the work area during any debris material handling next to existing bridge structures, in addition to other dust control efforts.

The lump sum price for this change includes: providing multiple crews including the cost of bringing equipment and personnel from out of town as required to staff the work; overtime premiums for the work, mobilization or demobilization; per diem, hotel, and air fare expenses for employees from out of town; health and safety and personal protective equipment; employee and perimeter air monitoring pumps and cassettes, exhaust fans; supplies, small tools, cutting torch gases and supplies; office trailer; sanitary facilities; wash stations, portable showers, employee changing facilities; temporary fencing; two-way radio and employee communication; permits; 3rd party air monitoring consultant, including the cost of expedited lab turnaround times and after-hours monitoring; structural engineer; onsite mechanic; custom fabricated spreader bars for removal of bridge stringers; catering services during 24 hour work schedule; and any premium costs associated with highside end dump trucking.

For demolishing the existing structures defined above in accordance with the requirements of this change order, the Contractor shall be paid an amount of \$3,077,800.

This amount constitutes full and final compensation, including all markups, for the work specified in this change order.

**CONTRACT CHANGE ORDER**

Change Requested by: Engineer

CCO: 563	Suppl. No. 0	Contract No. 04 - 0120S4	Road SF-80-12.7/13.2	FED. AID LOC.: NO FED AID
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Cost of Extra Work at Agreed Lump Sum \$3,077,800.00

All work includes cleaning up, hauling and disposing of all debris and materials at a legal offsite disposal or recycling facility. Work includes providing plywood or other measures to protect the existing lower bridge deck or roadway surface, and the cost to repair significant deck or roadway damage (such as a hole through the deck) if such protection measures are not sufficient.

Price includes the cost of rental and any repairs for temporary support towers or equipment used during the demolition. With agreement by the Engineer, the Department may make arrangements for the contractor to use an offsite property for storage or processing. As part of any such agreement, the contractor agrees to meet the terms of all permits associated with the use of such property.

Work excluded:

Prepare demolition plans - this work will be performed as part of CCO 538.

Marking or surveying the limits of the demolition.

Estimated Cost: Increase ☒ Decrease ☐ \$3,227,800.00

By reason of this order the time of completion will be adjusted as follows: 0 days

Submitted by

Signature	Resident Engineer William Howe, Senior R.E.	Date
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Approval Recommended by

Signature	Region Construction Division Chief Tony Anziano	Date
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Engineer Approval by

Signature	Region Construction Division Chief Tony Anziano	Date
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We the undersigned contractor, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above.

NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by

Signature	(Print name and title)	Date
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**CONTRACT CHANGE ORDER MEMORANDUM**

DATE: 4/4/2012 Page 1 of 2

TO: Deanna Vilcheck, ACM /		FILE: E.A. 04 - 0120S4		
FROM: William Howe, Senior R.E.		CO-RTE-PM SF-80-12.7/13.2		
FED. NO. NO FED AID				
CCO#: 563	SUPPLEMENT#: 0	Category Code: CXXX	CONTINGENCY BALANCE (incl. this change) \$0.00	
COST: \$3,227,800.00	INCREASE <input checked="" type="checkbox"/>	DECREASE <input type="checkbox"/>	HEADQUARTERS APPROVAL REQUIRED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
SUPPLEMENTAL FUNDS PROVIDED: \$0.00		IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
CCO DESCRIPTION: OTDD-Demolition for Bents E23 to E39		PROJECT DESCRIPTION: YBITS-1 (Yerba Buena Island Transition Structures)		
Original Contract Time: 1390 Day(s)	Time Adj. This Change: 0 Day(s)	Previously Approved CCO Time Adjustments: 0 Day(s)	Percentage Time Adjusted: (including this change) 0 %	Total # of Unreconciled Deferred Time CCO(s): (including this change) 0

**THIS CHANGE ORDER PROVIDES FOR:**

This change order provides for demolition of the existing Westbound Oakland Touchdown Bridge structure from Bent E23 to Bent E39.

This contract calls for the construction of the Yerba Buena Island Transition structures of the east span of the new San Francisco Oakland Bay Bridge (SFOBB). In a memo dated October 3, 2010, Brian Maroney (Deputy Toll Bridge Program Manager) recommended to the Toll Bridge Program Oversight Committee (TBPOC) that the Temporary Oakland Touchdown Detour be done under Contract Change Orders (CCO's). This recommendation was approved by the TBPOC in their October 7, 2010 meeting. Subsequently, a Contract Change Order Implementation Budget for \$51.5 Million was prepared and approved by the TBPOC in their February 3, 2011 meeting. As part of this work, this change order CCO 563 provides for the demolition of the previously existing westbound structure (including the Oakland Touchdown Detour structures) between Bent E23 and Bent E39. Consistent with the Implementation Strategy, CCO No. 563 will be specifically approved for an amount of \$3,227,800 by the TBPOC at their 8-27-2013 meeting.

CCO 563 will cover the demolition for a cost of \$3,227,800, which is within the original approved amount of this line item on the overall strategy document.

Compensation for the work associated with this change shall be paid at agreed lump sum of \$3,077,800, plus a force account amount of \$150,000 to cover items that are not defined yet, such as lead paint abatement, lighting, and installation of K rails at perimeter of remaining bridge. This change order provides funding for a total amount of \$3,227,800. This amount will be funded from the project's contingency fund. A detailed cost analysis is on file in the project records. No adjustment of contract time is warranted, as this change will not affect the controlling operation.

This change was requested by Mike Whiteside, Toll Bridge Structures Design, on a memo dated February 6, 2012.

Maintenance concurrence is not required, as it involves demolition items only.

**CONTRACT CHANGE ORDER MEMORANDUM**

EA: 0120S4 CCO: 563 - 0

DATE: 4/4/2012

Page 2 of 2

<b>CONCURRED BY:</b>			<b>ESTIMATE OF COST</b>		
Construction Engineer:	Bill Howe	Date		THIS REQUEST	TOTAL TO DATE
Bridge Engineer:	Gary Lai	Date	ITEMS	\$0.00	\$0.00
Project Engineer:	Charles Ho	Date	FORCE ACCOUNT	\$150,000.00	\$150,000.00
Project Manager:	Ken Terpstra	Date	AGREED PRICE	\$3,077,800.00	\$3,077,800.00
FHWA Rep.:		Date	ADJUSTMENT	\$0.00	\$0.00
Environmental:		Date	<b>TOTAL</b>	<b>\$3,227,800.00</b>	<b>\$3,227,800.00</b>
Other (specify):	Mike Whiteside	Date	<b>FEDERAL PARTICIPATION</b>		
Other (specify):		Date	<input type="checkbox"/> PARTICIPATING <input type="checkbox"/> PARTICIPATING IN PART <input checked="" type="checkbox"/> NONE <input type="checkbox"/> NON-PARTICIPATING (MAINTENANCE) <input type="checkbox"/> NON-PARTICIPATING		
District Prior Approval By:		Date	FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type)		
HQ (Issue Approve) By:	Larry Salhaney	Date	<input type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS		
Resident Engineer's Signature:		Date	FEDERAL FUNDING SOURCE    PERCENT _____ _____ _____		



## Oakland Touchdown Detour CCOs to YBITS (04-0120S4)

### INTRODUCTION

This contract calls for the construction of the Yerba Buena Island Transition structures of the east span of the new San Francisco Oakland Bay Bridge (SFOBB). In a memo dated October 3, 2010, the Deputy Toll Bridge Program Manager recommended to the Toll Bridge Program Oversight Committee (TBPOC) that the Temporary OTD Detour be done under Contract Change Orders. This recommendation was approved by the TBPOC in their October 7, 2010 meeting. Subsequently, a Contract Change Order Implementation Strategy with a working budget of \$51 Million was presented to the TBPOC on February 03, 2011 and it was approved.

### SCOPE OF WORK

Scope of work currently associated with the Oakland Touchdown Detour project have been assigned into the following categories:

Category	Scope of Work	Approved budget (Feb. 24, 2011)	In Progress Status Update 08/26/2013	
		(Million)	Current Forecast (Million)	Delta (Million)
1	EB roadway and prep work budget	\$11.36	\$8.54	(\$2.82)
2	WB roadway and structure budget	\$25.69	\$23.99	(\$1.70)
3	Bridge Opening 2013 & Job wide Expenses	\$5.89	\$10.17	\$4.28
Subtotal		\$42.94	\$42.70	(\$0.24)
Contingency		\$8.06	\$0.00	(\$8.06)
Total		\$51	\$42.70	(\$8.30)

CCO payments to date as of June 24, 2013 are \$27.67 Million

There are approximately an additional \$4.44 million in non-CCO costs -- COZEER, OCIP, Haz Waste removals -- that have been charged to the project to date, so total CCO + other expended to date = \$32.08 Million. As shown, the current status of the CCOs required to construct the Oakland Touchdown Detour is \$42.7M. The status of each category of work is discussed in the succeeding pages of this report.



**1. E/B ROADWAY AND PREP WORK**

CCO	Payment Method	Description	HQ Status	TBPOC Status	CCO Status	Approved Budget 02-03-2011	In Progress Status Update from Feb 3, 2011 Approved Budget	
							Current Estimated Amount	Current vs. 02-03-11 budget (Under budget = negative)
501	FA	Advance Utility Location and Identification	Issued	N/A	Executed 11/22/10	\$180,000	\$180,000	\$0
<b>502 and Supplements</b>								
502	FA	Advance Site Survey	Issued	N/A	Executed 11/22/10	\$300,000	\$150,000	
502s1	FA	Advance Site Survey--Supplemental funds	Issued	N/A	Executed 1/13/11	\$0	\$150,000	
502s2	FA	Site Survey--Supplemental funds	Issued	N/A	Executed 4/28/11	\$0	\$250,000	
502s3	FA	Site Survey--Supplemental funds	Issued	N/A	Executed 3/16/12	\$0	\$200,000	
<b>502 and Supplements subtotal</b>						<b>\$300,000</b>	<b>\$750,000</b>	<b>\$450,000</b>
503	FA	Traffic control for advance work	Issued	N/A	Executed 2/24/11	\$150,000	\$150,000	\$0
503s1	FA	Additional funds Traffic control	Issued	N/A	Executed 8/9/11		\$150,000	\$150,000
504	LS	Advance Geotechnical Investigation	Issued	N/A	Executed 3/30/11	\$41,866	\$41,866	\$0
505	FA	Relocate PG & E Electrical Lines	Issued	N/A	Executed 2/24/11	\$150,000	\$150,000	\$0
505s1	FA	Addl funds -- Relocate PG & E Electrical Lines	Issued	N/A	Executed 8/01/11		\$40,000	\$40,000
506	UP+FA	Pave Burma Road Extension	Issued	N/A	Executed 5/23/11	\$641,427	\$641,427	\$0
507	FA	SWPPP Measures (Burma Road and Eastbound work)	Issued	N/A	Executed 4/7/11	\$565,110	\$500,000	(\$65,110)
508	FA	Eastbound Phase I Advance Electrical	Issued	N/A	Executed 3/8/11	\$150,000	\$150,000	\$0
<b>509 and Supplements</b>								
509		EBMUD Sewer Outfall Pipe Overcrossing	Issued	N/A	Executed 5/25/11	\$690,000	\$996,441	
509s1		EBMUD Sewer Outfall Pipe Overcrossing--Concrete additive	Issued	Okd 6/2/11	Executed 6/6/11	\$0	\$50,023	
<b>509 and Supplements subtotal</b>						<b>\$690,000</b>	<b>\$1,046,464</b>	<b>\$356,464</b>
510	FA	Relocate Port of Oakland Electrical Duct	Issued	N/A	Executed 03/08/11	\$100,000	\$50,000	(\$50,000)
510s1	FA	Relocate Port of Oakland Electrical Duct	Issued	N/A	Executed 08/01/11	\$0	\$50,000	\$50,000
511	FA	Off-Haul and Disposal of Contaminated Soil	Issued	N/A	Executed 03/08/11	\$150,000	\$150,000	\$0
not reqd		Addl removal contaminated soil (Not Req'd)	N/A	N/A	N/A	\$51,750	\$0	(\$51,750)
512	Voided	Protective Cover Over PG & E Gas Line --Void (not req'd)	N/A	N/A	Not required	\$60,375	\$0	(\$60,375)
<b>513 528, 531 and 562</b>								
513	UP	Eastbound Roadway (inc drainage, AC, lane closures)	Issued	OK'd NTE \$2.5 Mill 4/7/2011; Final OK'd 5/5/11	Executed 06/03/11	\$3,032,846	\$2,011,269	
528	FA	AC QC	Issued	N/A	Executed 08/31/11	\$0	\$100,000	
531	FA	Buried Manmade Objects (for S1 see Westbound)	Issued	N/A	Executed 06/28/2011	\$0	\$100,000	
562	FA	Repair Pavement at Lanes 1 and 2 Eastbound	Issued	N/A	Executed 05/04/2012	\$0	\$50,000	
<b>513 528, 531 &amp; 562 subtotal</b>						<b>\$3,032,846</b>	<b>\$2,261,269</b>	<b>(\$771,577)</b>
514	FA	Dewatering	Issued	N/A	Executed 5/13/11	\$0	\$150,000	\$150,000
515	FA	Vibration and Crack Monitoring	Issued	N/A	Executed 3/14/11	\$0	\$50,000	\$50,000



516	FA	Eastbound Electrical inc Traffic Operations System; Lighting	Issued	N/A	Executed 09/07/2011	\$1,074,675	\$800,000	(\$274,675)
517	UP	AC Approach Ramps for EBMUD Overcrossing	Issued	N/A	Executed 06/03/2011	\$676,591	\$283,104	(\$393,487)
518	LS	Relocate changeable message sign (CMS)	Issued	N/A	Executed 07/12/2011	\$182,250	\$140,511	(\$41,739)
519	UP	Maintain Burma Road Maritime to Western End	Issued	N/A	Executed 4/29/11		\$260,660	\$260,660
519s1 not reqd	N/R	Maintain Burma Road Maritime to Western End -- Addl work -- Now not required	Not reqd	N/A	Not required		\$0	\$0
520	FA	Relocate ATT ducts	Issued	N/A	Executed 4/29/11	\$301,875	\$150,000	(\$151,875)
532	LS	ESA fences / protection	N/A	N/A	Executed 08/01/11	\$44,896	\$42,163	(\$2,733)
532s1	LS	Additional Gate for ESA fences	N/A	N/A	Executed 10/21/11		\$1,568	\$1,568
not reqd	EST	PG & E on exis frontage road (not reqd)	N/A	N/A	Not reqd	\$736,575	\$0	(\$736,575)
not reqd	EST	Other utility relocation: san, storm, MH's (not reqd)	N/A	N/A	Not reqd	\$368,287	\$0	(\$368,287)
<b>525 and 530</b>								
see 525 and 530		Ebound & Burma R/R Stripes, Markers, Pavement Delineation				\$93,054		
see 525 and 530		Eastbound Stripes, Markers, Signs, Detour Traffic Enhancements				\$533,140		
525	UP	Eastbound Striping	Issued	N/A	Executed 10/10/11		\$134,949	
530	UO	Eastbound Signs	Issued	N/A	Executed 10/10/11		\$62,306	
<b>525 &amp; 530 subtotal</b>		<b>Eastbound Signs and Striping</b>				<b>\$626,194</b>	<b>\$197,255</b>	<b>(\$428,939)</b>
537	N/R	Eastbound Roadway -- cancel (not required)	N/A	N/A	Not required	\$305,000	\$0	(\$305,000)
<b>523 (for Supplements see westbound section)</b>								
523	FA	R/Replace Krail (or type 60) with fence on top	Issued	N/A	Executed 05/20/11	\$421,742	\$150,000	
not reqd	EST	R/Replace chain link fence (not reqd)	N/A	N/A	Not required	\$353,556		
<b>523 subtotal</b>		<b>Eastbound K Rails</b>				<b>\$775,298</b>	<b>\$150,000</b>	<b>(\$625,298)</b>
<b>Subtotal 1. E/B ROADWAY AND PREP WORK</b>						<b>\$11,355,015</b>	<b>\$8,536,287</b>	<b>(\$2,818,728)</b>

## 2. WESTBOUND ROADWAY AND STRUCTURE

CCO	Payment Method	Description	HQ Status	TBPOC Status	CCO Status	Approved Budget 02-03-2011	In Progress Status Update from Feb 3, 2011 Approved Budget	
							Current Estimated Amount	Current vs. 02-03-11 budget (Under budget = negative)
521	EW@UP	FURNISH STEEL PILING (HP 360 X 132)	Issued	N/A	Executed 4/29/11	\$989,034	\$828,147	(\$160,887)
<b>543, 544 Stripes, Markers, Signs, Detour Traffic Enhancements</b>								
see below 543, 544		Westbound Stripes, Markers, Signs, Detour Traffic Enhancements	see below	N/A	see below	\$645,760		
543	EST	Westbound Signs	Issued	N/A	Executed 3/09/12		\$17,402	
544	UP	Westbound Stripes and Markers -- Stage 2 work	Issued	N/A	Executed 12/14/11		\$30,754	
544s1	EST	Westbound Stripes and Markers	Issued	N/A	Executed 3/05/12		\$249,076	
not reqd	N/R	Detour Traffic Enhancements -- Not reqd	N/A	N/A	Not written		\$0	
<b>543, 544, 549, 550 subtotal</b>						<b>\$645,760</b>	<b>\$297,232</b>	<b>(\$348,528)</b>
<b>536, 549, 550 Westbound Lane Closures</b>								
536	UP	Lane closures for Westbound	Issued	N/A	Executed 08/30/11	\$2,054,802	\$515,365	
536s1	UP	Lane closures for Westbound-- Supplemental Lane Charts (no cost)	Issued 4/26/12	N/A	Executed 04/26/12	\$0	\$0	
not reqd	N/R	Lane closures -- Supplement (now reduced to zero)	Not reqd	N/A	Not required		\$0	
549	LS+FA	Close the westbound bridge: Portable Changeable Message Signs	Issued	1/5/12 \$1.7 million (NTE) OK'd Final 2/1/2012 OK'd	Executed 02/03/12	\$0	\$1,462,883	
550	LS+FA	Close the westbound bridge: Traffic Control	Issued	N/A	Executed 02/23/12	\$0	\$287,960	
554	FA	OTDD Costs Related to Westbound Full Closure (President's Day Weekend 2012)	Issued	N/A	Executed 02/10/12	\$0	\$700,000	\$700,000
558	FA	OTDD Public Canvassing Costs Related to Westbound Full Closure (President's Day Weekend 2012)	Issued	N/A	Executed 01/26/12	\$0	\$80,000	\$80,000
<b>WESTBOUND LANE CLOSURE subtotal</b>						<b>\$2,054,802</b>	<b>\$3,046,208</b>	<b>\$991,406</b>
535	LS	Westbound Electrical inc Traffic Loops, Lights, Reconnect existing bridge structure electrical	Issued	N/A	Executed 2/10/12	\$1,652,463	\$380,357	(\$1,272,106)
not reqd	N/R	Supplemental Westbound Electrical--Not reqd	N/A	N/A	Not required		\$0	\$0
548	FA	Electrical Temporary Relocation of Electrical Lighting	N/A	N/A	Executed 12/09/11		\$150,000	\$150,000
534	LS	Westbound changeable message sign (CMS)	Issued	N/A	Executed 09/26/11	\$214,200	\$170,084	(\$44,116)
not reqd	N/R	Add overhead road sign -- not reqd	N/A	N/A	Not written	\$431,077	\$0	(\$431,077)



**523s1, 526 Westbound Roadway Work**

Note: CCO 526: \$6.1 million (NTE) has been approved by POC, that includes these line items. Portions of the work that are issued Individual CCO numbers are tracked as shown for each line item, total values shown on Subtotal line below

523s1	EST	K-Rail -- Supplement for Westbound Concrete Barrier	Issued	N/A	Executed 01/04/12	\$305,449	\$300,000	(\$5,449)
523s2	EST	K-Rail -- further supplement Westbound	Issued	N/A	Executed 03/13/12	\$0	\$50,000	\$50,000
see 526, 560, 561	EST	Westbound Chain Link Fence (scope now in 526)				\$545,210		(\$545,210)
560	LS	Westbound Chain Link Fence on Barrier Rail -- S Side	Issued	N/A	Executed 4/18/12		\$41,354	\$41,354
561	EST	Westbound Chain Link Fence -- VOIDED	N/A	N/A	Void		\$0	\$0
see 526	EST	Westbound Roadway Work (inc in 526)				\$4,742,448		(\$4,742,448)
see 526	EST	Westbound drainage (inc in 526 and 546)				\$582,159		(\$582,159)
541	UP+FA	Westbound Polyester Concrete Overlay	Issued	N/A	Executed 02/10/12	\$0	\$513,849	\$513,849
526	UP+FA	Westbound Roadway Work See *Note above	Issued	For Info 12/1/11 Ok'd	Executed 12/16/11	\$0	\$2,774,851	\$2,774,851
526s1	UP	Westbound Roadway Work -- Final Quanties	Issued	For Info 4/17/12 Ok'd	Executed 08/10/12	\$0	\$105,481	\$105,481
531s1	FA	Buried Manmade Objects (Supplemental funds for Westbound)	Issued	N/A	Executed 08/02/2012	\$0	\$95,000	\$95,000
545	LS	Health and Safety Measures	Issued	N/A	Executed 02/03/12	\$0	\$2,350	\$2,350
not reqd	N/R	Health and Safety Measures -- Future supplement -- not required	N/A	N/A	not reqd	\$0	\$0	\$0
546	FA	Temporary Drainage Measures	Issued	N/A	Executed 12/21/11	\$0	\$50,000	\$50,000
546s1	FA	Temporary Drainage Measures -- Supplement	N/A	N/A	Executed 4/4/12	\$0	\$100,000	\$100,000
553	FA	Temporary Roadway to Provide Safe Access	Issued	N/A	Executed 12/13/11	\$0	\$50,000	\$50,000
559	FA	Pavement Repair from W of OTDD to East of Temp Bypass Structure	Issued	N/A	Executed 03/05/12	\$0	\$150,000	\$150,000
<b>523s1, 526 subtotal</b>				<b>6/2/11 \$6.1 mil (NTE) OK'd</b>		<b>\$6,175,266</b>	<b>\$4,232,885</b>	<b>(\$1,942,381)</b>

**524 Westbound Structure Foundations**

\$3.5 million (NTE) has been approved by POC, that includes these listed line items. Total values are shown on the Subtotal line below

see 524		STRUCTURE EXCAVATION (BRIDGE)				\$553,859		(\$553,859)
see 524		STRUCTURE BACKFILL (BRIDGE)				\$194,642		(\$194,642)
see 524		DRIVE STEEL PILE (HP 360 X 132)				\$516,935		(\$516,935)
see 524		STRUCTURAL CONCRETE, BRIDGE FOOTING				\$1,439,540		(\$1,439,540)
see 524		BAR REINFORCING STEEL (BRIDGE)				\$684,000		(\$684,000)
524	UP	Westbound Structure Foundations -- Sonic drilling and drive piles portion	Issued	N/A	Executed 5/20/11	\$0	\$946,506	\$946,506
524s1	LS+FA	Westbound Structure Foundations -- Excavation, Backfill, Bar Reinforcing, Concrete	Issued	OK'd 8/03/2011	Executed 8/24/11	\$0	\$1,177,002	\$1,177,002
524s2	LS	Westbound Structure Foundations -- additional Sonic drilling, concrete, rebar changes	Issued	For Info 12/1/11 Ok'd	Executed 12/14/11	\$0	\$41,163	\$41,163
524 future sup.	N/R	Westbound Structure Foundations -- no further supplements	N/A	N/A	N/A	\$0	\$0	\$0
551	FA	Shore Exis Roadway at Bent E39	Issued	N/A	Executed 12/13/11	\$0	\$50,000	\$50,000
552	FA	Remove Traveler Rails under Existing Westbound	Issued	N/A	Executed 12/13/11	\$0	\$25,000	\$25,000
<b>524 Subtotal Westbound Foundations</b>				<b>5/5/11 \$3.5 mil (NTE) OK'd</b>		<b>\$3,388,976</b>	<b>\$2,239,671</b>	<b>(\$1,149,305)</b>
527	FA	Westbound advance Field Investigations and Potholing	Issued	N/A	Executed 5/20/11	\$0	\$180,000	\$180,000
533	FA	Lead Paint Abatement	Issued	N/A	Executed 9/1/11	\$0	\$150,000	\$150,000
533s1	FA	Lead Paint Abatement -- Supplemental	Issued	N/A	Executed 12/13/11	\$0	\$150,000	\$150,000
533s2	FA	Lead Paint Abatement -- Supplemental	Issued	N/A	Executed 04/23/12	\$0	\$300,000	\$300,000



<b>529 Westbound Support walls and Superstructure</b> <b>\$8.0 million (NTE) has been approved by POC, that includes these listed line items. Total values are shown on the Subtotal line below</b>								
see 529		STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)				\$109,849		(\$109,849)
529	UP	STRUCTURAL CONCRETE, BRIDGE Westbound Support Walls and Strap Beams	Issued	For Info 1/5/12 OK'd	Executed 2/8/12	\$2,877,760	\$2,968,027	\$90,267
539	FA	FURNISH STRUCTURAL STEEL (BRIDGE)	Issued	N/A	Executed 10/27/11	\$264,072	\$500,000	\$235,928
539 s1	FA	FURNISH STRUCTURAL STEEL (BRIDGE) Supplement added dwgs but not cost	Issued	N/A	Executed 12/09/11		\$0	\$0
539 s2	FA	FURNISH STRUCTURAL STEEL (BRIDGE) Supplement	Issued	2/1/2012: Total S0+S1+S2 = \$1.3 M OK'd	Executed 2/8/12		\$800,000	\$800,000
540	LS+FA	ERECT STRUCTURAL STEEL (BRIDGE)	Issued	For Info 12/1/11 OK'd	Executed 12/14/11	\$322,754	\$1,769,910	\$1,447,156
see 529		CONCRETE BARRIER (TYPE 732 MODIFIED)		Not reqd (use K Rail)		\$217,587		(\$217,587)
see 529		Westbound Mechanical and water lines				\$838,206		(\$838,206)
see 529		Surface Drainage and Groundwater Control from below the existing bridge				\$821,100		(\$821,100)
538	FA	Bridge Demolition Plan	Issued	N/A	Executed 10/10/11	\$0	\$50,000	\$50,000
see 529s1		FURNISH and ERECT PRECAST PRESTRESSED CONCRETE GIRDER				\$1,530,530		(\$1,530,530)
529s1	LS	Westbound Superstructure Work	Issued	Feb 1, 2012 Final OK'd	Executed 2/8/12	\$0	\$1,687,328	\$1,687,328
529s2	LS	Westbound Superstructure Work	Issued	Aug 21, 2012 Final OK'd	Sent to MCM for signature 8/27/12	\$0	\$235,683	\$235,683
557	LS	OTDD Westbound Structure -- Barrier Demolition (this was split off from 529 -- total costs tracked in subtotal below)	Issued	Request Feb 2012 NTE \$1.9M OK'd Final April 2012 Info only	Executed 2/09/12	\$1,022,002	\$49,473	(\$972,529)
557s1	LS+FA	OTDD Westbound Structure -- Demolition (this was split off from 529 -- total costs tracked in subtotal below)	Issued	Request Feb 2012 NTE \$1.9M OK'd Final April 2012 Info only	Executed 2/23/12		\$394,714	\$394,714
<b>529 subtotal Westbound Support Walls and Superstructure Work</b>				6/2/11 \$8.0 mill (NTE) Aug 21, 2012 Final 529s2 OK'd 2/1/2012: Addl \$1.9 mill (NTE) CCO 557 OK'd		<b>\$8,003,860</b>	<b>\$8,360,421</b>	<b>\$356,561</b>
542	EST	Relocate Column Bent E27 -- VOIDED (Scope moved to OTD 2 Project)	Void	N/A	Void	\$0	\$0	\$0

547	LS+FA	Bridge Jacking	Issued	1/5/12 \$1.2 million (NTE) OK'd Final 2/12/12 OK'd	Executed 2/14/12	\$0	\$1,196,590	\$1,196,590
507s1	FA	SWPPP measures (Supplemental) for Westbound work	Issued	N/A	Executed 8/31/2012	\$1,412,775	\$175,000	(\$1,237,775)
555	LS+FA	OTDD Westbound Precision Steel Cuts	Issued	N/A	Executed 2/10/12	\$0	\$398,160	\$398,160
555s1	LS	OTDD Westbound Precision Steel Cuts -- Supplement	Issued	N/A	Executed 8/31/2012	\$0	\$289,762	\$289,762
556	FA	OTDD Backfill at Existing Bridge Structure	Issued	N/A	Executed 2/08/12	\$0	\$350,000	\$350,000
Expenses	EST	State furnished Expenses: CONSTRUCTION ZONE ENHANCED ENFORCEMENT PROGRAM (COZEEP)	N/A	N/A	N/A	\$720,000	\$1,000,000	\$280,000
<b>Subtotal 2. WESTBOUND ROADWAY AND STRUCTURE</b>						<b>\$25,688,213</b>	<b>\$23,989,231</b>	<b>(\$918,982)</b>



### 3. BRIDGE OPENING 2013 AND JOB WIDE EXPENSES

CCO	Payment Method	Description	HQ Status	TBPOC Status	CCO Status	Approved Budget 02-03-2011	In Progress Status Update from Feb 3, 2011 Approved Budget	
							Current Estimated Amount	Current vs. 02-03-11 budget (Under budget = negative)
564 Bikepath Ramp Structure								
see below 564, 564s1		Bikepath Ramp Structure (install during Seismic Safety changeover)	see below	Future	see below	\$630,000		
564	FA	Bikepath Ramp Structure (install during Seismic Safety changeover)	I&A 3-26-13	N/A	At contractor for signature		\$500,000	\$500,000
564s1	LS+FA	Bikepath Ramp Structure (install during Seismic Safety changeover)	I&A 8-26-13	4/11/13 \$1.5 million (NTE) OK'd	At contractor for signature		\$1,500,000	\$1,500,000
564s2	LS+FA	Bikepath Ramp Structure (install during Seismic Safety changeover)	Potential I&A	On agenda 8/27/13 \$1.5 million (NTE)	Not written		\$1,500,000	\$1,500,000
564 and Supplement(s) subtotal						\$630,000	\$3,500,000	\$2,870,000
563	EST	Bridge Removal Upper Deck and WB widening (during Seismic Safety changeover)	Potential I&A	On agenda 8/27/13 \$3.227 M	Not written	\$3,462,000	\$3,227,800	(\$234,200)
Expenses	EST	State furnished Expenses: Owner Controlled Insurance Program (OCIP)	N/A	N/A	N/A	\$1,800,000	\$1,500,000	(\$300,000)
Expenses	EST	State furnished Expenses: On Call Hazardous Materials removals	N/A	N/A	N/A	\$0	\$1,939,851	\$1,939,851
Subtotal 3. BRIDGE OPENING 2013 AND JOB WIDE EXPENSES						\$5,892,000	\$10,167,651	\$7,775,651

<b>4. SUMMARY</b>			
	Current budget (Feb. 24, 2011)	In Progress Status Update from Feb 24, 2011 Approved Budget	
		Current	Delta
Subtotal 1. E/B ROADWAY AND PREP WORK	\$11,355,015	\$8,536,287	(\$2,818,728)
Subtotal 2. WESTBOUND ROADWAY AND STRUCTURE	\$25,688,213	\$23,989,231	(\$1,698,982)
Subtotal 3. BRIDGE OPENING 2013 AND JOB WIDE EXPENSES	\$5,892,000	\$10,167,651	\$4,275,651
<b>SUBTOTAL</b>	<b>\$42,935,228</b>	<b>\$42,693,169</b>	<b>\$4,037,941</b>
<b>CONTINGENCY</b>	<b>\$8,064,772</b>	<b>\$0</b>	<b>(\$8,064,772)</b>
<b>TOTAL</b>	<b>\$51,000,000</b>	<b>\$42,693,169</b>	



## *Memorandum*

**TO:** Toll Bridge Oversight Committee (TBPOC)    **DATE:** August 27, 2013

**FR:** Dina Noel, Assistant Deputy Director Toll Bridge Program, CTC

**RE:** Agenda No. - 2a2

Item - Consent Calendar – Contract Change Order(s)  
YBITS1 CCO 564-S2 – OTD Temporary Bike Path Ramp  
Structure

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**Recommendation:**

**APPROVAL**

**Cost:**

Not to Exceed \$1,500,000.00

**Schedule Impacts:**

NA

**Discussion:**

YBITS1 Change Order No. 564-S2 **in the not-to-exceed amount of \$1,500,000.00** covers the cost of furnishing labor, equipment, and material needed to implement the final design details of the OTD temporary bike path structure. The scope of work includes pre-assembling several of the sections of the bike path, which will be transported, lifted and assembled into place during the Labor Day weekend, see attached photos.

The total estimated cost of the temporary bike path, including this request for \$1,500,000.00 is \$3,500,000.00. On April 11, 2013 the TBPOC approved a budget of \$2,000,000.00 for this item, see attached contract change order implementation strategy. Since then, the design was modified to add a non-skid surface, railing details, and construction and installation of precast concrete panels.

It has been suggested to explore the possibility of re-using the temporary bike path, perhaps by the East Bay Regional Park District, once the permanent bike path is in operation.

**Risk Management:**

The OTDD Risk Register carries Risk ID #1240 "Difficulties Constructing the Temporary Bike path" to cover changes to the temporary bike path as contemplated in the budget allocations for the Oakland Touchdown Detour (OTDD). The range for this item is \$100,000.00 to \$2 million. Therefore, this supplemental request is covered in the risk register.

## *Memorandum*

### **Attachment(s):**

1. YBITS CCO 564-S2
2. YBITS CCO 564-S2 Memo
3. YBITS CCO 564-S0
4. YBITS CCO 564-S0 Memo
5. YBITS CCO 564-S1
6. YBITS CCO 564-S1 Memo
7. Photos of Bike Path Sections in Progress
8. Contract Change Order Implementation Strategy

**CONTRACT CHANGE ORDER**

Change Requested by: Engineer

CCO: 564	Suppl. No. 2	Contract No. 04 - 0120S4	Road SF-80-12.7/13.2	FED. AID LOC.: NO FED AID
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**To: M C M CONSTRUCTION INC**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. **NOTE: This change order is not effective until approved by the Engineer.**

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.) Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time. This last percentage shown is the net accumulated increase or decrease from the original quantity in the Engineer's Estimate.

This change order supplement, along with previously issued Contract Change Order No. 564 Supplement 0 and Supplement 1 (CCO 564 s0 and s1), is to construct the San Francisco-Oakland Bay Bridge East Span Seismic Safety Project Oakland Touchdown Detour, Oakland Touchdown Detour Temporary Bikepath in accordance with the drawings listed here and as described herein:

The following drawings have been revised, and replace earlier revisions of drawings that were previously issued with CCO 564 s0 or 564s1 (Sheets 4 through 8 of this change order): 47R1, 49r1, 76R1, and 80R2.

The following new contract plan sheets are added as part of this change (Sheets 9 through 11 of this change order): 50A, 50B, of 100.

The remaining drawings that were previously issued with CCO 564 s0 and s1 remain as part of the work.

**Extra Work at Force Account:**

Provide labor, equipment and materials to construct temporary bikepath, crossover structure, precast end panels, hot mix asphalt, and other items as directed.

This force account work, along with the force account work included in CCO 564 s0 and 564 s1, will cover the costs to perform the work of this change order that is not already included in the scope of the agreed lump sum or unit prices in CCO 564s0, 564s1, or this change order, as directed by the Engineer.

This work will be paid for in accordance with Section 5-1.17 "Force Account Payment" of the Special Provisions and Section 4-1.03D "Extra Work" of the Standard Specifications.

Estimated cost of Extra Work at Force Account .....\$800,000.00

**Extra Work at Unit Price:**

Provide materials, including shop fabrication, for the following (Items 7 through 9):

7. Provide all wood fastening bracket and shear plate hardware for Section M1, M2, M3, M7, M8, M9, M10, M11 and M12, including as follows:

- Shear plates, connector brackets, gusset plates, post splice brackets, braces
- Footing screwjack assemblies, including bolts
- Brackets for diaphragms
- Glulam connection brackets between adjacent panels
- Footing brackets

The price for this portion of work excludes:

- Wood fasteners, tie rods, lag bolts, bolts, screws, washers, nuts, threaded rods
- Anchor bolts or anchor bolts templates
- Structural steel, sole and masonry bearings plates
- Metal decking
- Shear connectors
- Bearing pads or shim packs
- Wood
- Railings
- Hardware to tie railings down to deck
- Pipe sleeves and rectangular sleeves to grout screwjack assemblies

**CONTRACT CHANGE ORDER**

Change Requested by: Engineer

CCO: 564

Suppl. No. 2

Contract No. 04 - 0120S4

Road SF-80-12.7/13.2

FED. AID LOC.: NO FED AID

1 lump sum @ \$255,000.00, including all taxes, delivery and markups

8. Provide all Pipe sleeves and rectangular sleeves to grout screwjack assemblies for Section M1 through M12, including hardware to bolt together sleeves.

1 lump sum @ \$130,000.00, including all taxes, delivery and markups

9. Costs for Fabrication of Railings which are in addition to the cost CCO 564s1 Item 4, including:

Additional costs to prepare shop drawings, shop fabricate and deliver, as related to changes in above drawing revisions, or as related to the Department responses to Requests for Information (RFI's) through August 21, 2013.

Additional costs related to infill panel mesh installation and welding changes, including: powder coating all materials (instead of galvanizing and painting); mesh wires to be inserted and extended through holes drilled through the 38x19x11 gauge channel (1 1/2 inch x 3/4 x 3/16) at the inside of each panel frame, and seal weld (every second wire) at the inside of the channel with a 5 mm (3/16 inch) fillet weld all around; addition of flat bar materials (20 each 1/4 inch x 1 x 3/4 and 20 each 1/4 inch x 1/2 x 3/4 powder coated); and weld each side of all panels.

All welds to be ground flush and buffed smooth prior to powder coating.

All posts and top rail plates to include powder coating (instead of painting).

Providing additional shop manpower, working overtime, and providing expedited material deliveries to mitigate all Department caused delays to the operation in order to meet the required delivery schedule.

1 lump sum @ \$195,154.00, including all taxes, delivery and markup

Provide labor, equipment, and materials to construct the following (Items 10 and 11):

10. Provide and place gravel filling for sections M13 through M16. Provide and place Hot Mix Asphalt paving at crossover structure, conform area of existing bikepath, and contour area adjacent to Section M16.

1 Lump sum @ \$100,000

11. Shift work and standby for steel erection crew

Add overtime work, standby work, and shift work for the operation of the steel erection (item 6).

1 lump sum @ \$19,846

Total Estimated Cost of Extra Work at Agreed UNIT PRICE \$700,000.00

The agreed prices include all labor, equipment and material as required. The agreed prices constitute full payment, including all markups, for this change.

Total CCO: NTE \$1,500,000.

By reason of this order the time of completion will be adjusted as follows: Zero days

**CONTRACT CHANGE ORDER**

Change Requested by: Engineer

CCO: 564	Suppl. No. 2	Contract No. 04 - 0120S4	Road SF-80-12.7/13.2	FED. AID LOC.: NO FED AID
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Estimated Cost: Increase ☒ Decrease ☐ \$1,500,000.00

By reason of this order the time of completion will be adjusted as follows: 0 days

**Submitted by**

Signature	Resident Engineer William Howe, Senior R.E.	Date
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**Approval Recommended by**

Signature	Region Construction Division Chief Tony Anziano	Date
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**Engineer Approval by**

Signature	Region Construction Division Chief Tony Anziano	Date
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We the undersigned contractor, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above.

**NOTE:** If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest within the time therein specified.

**Contractor Acceptance by**

Signature	(Print name and title)	Date
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**CONTRACT CHANGE ORDER MEMORANDUM**

DATE: 8/21/2013 Page 1 of 2

TO: Deanna Vilcheck, ACM /			FILE: E.A. 04 - 0120S4	
FROM: William Howe, Senior R.E.			CO-RTE-PM SF-80-12.7/13.2	
FED. NO. NO FED AID				
CCO#: 564	SUPPLEMENT#: 2	Category Code: CHXX	CONTINGENCY BALANCE (incl. this change) \$0.00	
COST: \$1,500,000.00 INCREASE <input checked="" type="checkbox"/> DECREASE <input type="checkbox"/>			HEADQUARTERS APPROVAL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
SUPPLEMENTAL FUNDS PROVIDED: \$0.00			IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
CCO DESCRIPTION: OTDD-Temp Bikepath Ramp Structure			PROJECT DESCRIPTION: YBITS-1 (Yerba Buena Island Transition Structures)	
Original Contract Time: 1390 Day(s)	Time Adj. This Change: 0 Day(s)	Previously Approved CCO Time Adjustments: 0 Day(s)	Percentage Time Adjusted: (including this change) 0 %	Total # of Unreconciled Deferred Time CCO(s): (including this change) 0

**THIS CHANGE ORDER PROVIDES FOR:**

This change order provides compensation to the contractor for costs to construct portions of the Oakland Touchdown Detour Temporary Bikepath Structure for the Oakland Touchdown Detour temporary bikepath. Original CCO 564 was issued for \$500,000 to procuring materials, and initial panel fabrication.

Further design was completed for the construction of a crossover structure and precast concrete panels and supplement 1 was issued to cover the identified items for an additional \$1.5 million, total cost of CCO + supplement 1 = \$2.0 million

Since then, further design has been completed adding a non-skid surface, details for the railings, and the completion of construction and installation of panels that was not included in the original CCO, this supplement will cover those items, for an additional \$1.5 million (NOT TO EXCEED), total cost of CCO + supplement = \$3.5 million (NOT TO EXCEED).

This contract calls for the construction of the Yerba Buena Island Transition structures of the east span of the new San Francisco Oakland Bay Bridge (SFOBB). In a memo dated October 3, 2010, the Brian Maroney (Deputy Toll Bridge Program Manager) recommended to the Toll Bridge Program Oversight Committee (TBPOC) that the Temporary OTD Eastbound Detour be done under Contract Change Orders (CCO's). This recommendation was approved by the TBPOC in their October 7, 2010 meeting. Subsequently, a Contract Change Order Implementation Budget for \$51.5 Million was prepared and approved by the TBPOC in their February 3, 2011 meeting, and included a line item for this temporary bikepath. This strategy document has been updated multiple times to reflect the changing status, the most recent version (February 27, 2013, with total estimated cost \$41.0 million) includes a line item for the temporary bikepath CCO 564 with a budget estimate of \$1,668,000. The S1 cost estimate for this CCO and Supplement is \$2.0 million, this was requested and approved by the TBPOC at their April 11, 2013 meeting (see attached minutes). With this additional supplement 2, the cost estimate for this CCO and Supplement is \$3.5 million (NOT TO EXCEED), this was requested and approved by the TBPOC at their \_\_\_\_\_ meeting (see attached minutes).

Due to concerns about this work being ready in time for the scheduled Labor Day 2013 Seismic Safety Opening of the bridge, S0 and S1 portions this change order were issued with only the partial drawings completed to cover the noted scope of work. The current update S2 will add the final contract drawings, and cover all anticipated costs.

Elements of work excluded from this change order include traffic control, K rails, and storm water pollution prevention plans and measures.

Compensation for this work associated with this CCO will be lump sum items for identified costs of \$700,000, and the balance for items not yet know paid at force account, total force account amount = \$800,000 (NOT TO EXCEED). This change order supplement provides funding for an estimated cost of \$1,500,000, so the total change order plus supplement = \$3,500,000 (NOT TO EXCEED). This will be funded from the project's contingency fund. A cost analysis is on file.

No adjustment of contract time is warranted, as this change will not affect the controlling operation.

This change was requested by Mike Whiteside, Branch Chief, Office of Toll Bridge design, on March 7, 2013.

Maintenance concurrence is not required as this change does not affect any permanent work.

**CONTRACT CHANGE ORDER MEMORANDUM**

EA: 0120S4 CCO: 564 - 2

DATE: 8/21/2013 Page 2 of 2

<b>CONCURRED BY:</b>			<b>ESTIMATE OF COST</b>		
Construction Engineer:	Bill Howe	Date		THIS REQUEST	TOTAL TO DATE
Bridge Engineer:	Gary Lai	Date	ITEMS	\$0.00	\$0.00
Project Engineer:	Charles Ho	Date	FORCE ACCOUNT	\$800,000.00	\$1,377,517.00
Project Manager:	Ken Terpstra	Date	AGREED PRICE	\$700,000.00	\$2,122,483.00
FHWA Rep.:		Date	ADJUSTMENT	\$0.00	\$0.00
Environmental:		Date	<b>TOTAL</b>	<b>\$1,500,000.00</b>	<b>\$3,500,000.00</b>
Other (specify):		Date	<b>FEDERAL PARTICIPATION</b>		
Other (specify):		Date	<input type="checkbox"/> PARTICIPATING <input type="checkbox"/> PARTICIPATING IN PART <input checked="" type="checkbox"/> NONE <input type="checkbox"/> NON-PARTICIPATING (MAINTENANCE) <input type="checkbox"/> NON-PARTICIPATING		
District Prior Approval By:		Date	FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type)		
HQ (Issue Approve) By:	Larry Salhaney	Date	<input type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS		
Resident Engineer's Signature:		Date	FEDERAL FUNDING SOURCE    PERCENT _____ _____ _____		



**CONTRACT CHANGE ORDER**

Change Requested by: Engineer

CCO: 564	Suppl. No. 0	Contract No. 04 - 0120S4	Road SF-80-12.7/13.2	FED. AID LOC.: NO FED AID
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**To: M C M CONSTRUCTION INC**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. **NOTE: This change order is not effective until approved by the Engineer.**

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.) Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time. This last percentage shown is the net accumulated increase or decrease from the original quantity in the Engineer's Estimate.

Construct portions of the Oakland Touchdown Detour Temporary Structure in accordance with the attached drawings (Sheets 3 through 70 of this change order) for the San Francisco-Oakland East Span Seismic Safety Project Oakland Touchdown Detour, Bridge No. 33-25 and as described herein.

The contract plan sheets reflecting this change are 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, and 83 of 100 (Total of 68 plan sheets).

**Extra Work at Force Account:**

Provide labor, equipment and materials as required to prepare shop drawings, procure materials as required, and ship items for the structure, and other work as directed by the Engineer for the temporary bikepath, as shown in these drawings.

Materials shall include wooden and steel structural members, wood framing and decking, connector plates and brackets, posts and screw jack supports, pipe sleeves, fasteners, railing materials, steel reinforcing bar, joint cover plate assemblies, and associated items as directed.

Fabricate, coat or paint selected panel assemblies, including one full panel and sufficient portions of an adjacent panel to perform a test fit-up between two adjacent panels, as directed by the Engineer. Fabricate additional panels upon completion of the test fit-up as directed by the Engineer.

This work will be paid for in accordance with Section 5-1.17 "Force Account Payment" of the Special Provisions and Section 4-1.03D "Extra Work" of the Standard Specifications.

Estimated cost of Extra Work at Force Account .....\$500,000.00

The following items will be covered under a separate change order or supplemental change order:

Completion of the balance of the bikepath, including crossover structure and bikepath approach boxes.

- Relocating, removing or installation of barrier rails (Type K or other) will be completed under a separate Contract.
- Storm Water Pollution Prevention Plan (SWPPP) measures, such as SWPPP amendments and reports, and the cost of implementing such measures.

**CONTRACT CHANGE ORDER**

Change Requested by: Engineer

CCO: 564	Suppl. No. 0	Contract No. 04 - 0120S4	Road SF-80-12.7/13.2	FED. AID LOC.: NO FED AID
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Estimated Cost: Increase ☒ Decrease ☐ \$500,000.00

By reason of this order the time of completion will be adjusted as follows: 0 days

**Submitted by**

Signature <i>William Howe</i>	Resident Engineer William Howe, Senior R.E.	Date 03-19-13
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**Approval Recommended by**

Signature <i>Deanna Vilcheck</i>	Area Construction Manager Deanna Vilcheck	Date 3/25/13
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**Engineer Approval by**

Signature	Area Construction Manager Deanna Vilcheck	Date
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We the undersigned contractor, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above.

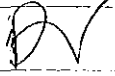
NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest within the time therein specified.

**Contractor Acceptance by**

Signature	(Print name and title)	Date
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**CONTRACT CHANGE ORDER MEMORANDUM**

DATE: 3/5/2013 Page 1 of 2

TO: Deanna Vitcheck, ACM 			FILE: E.A. 04 - 0120S4	
FROM: William Howe, Senior R.E.			CO-RTE-PM SF-80-12.7/13.2	
FED. NO. NO FED AID				
CCO#: 564	SUPPLEMENT#: 0	Category Code: CHXX	CONTINGENCY BALANCE (incl. this change) <b>\$14,349,480.84</b>	
COST: <b>\$500,000.00</b> INCREASE <input checked="" type="checkbox"/> DECREASE <input type="checkbox"/>			HEADQUARTERS APPROVAL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
SUPPLEMENTAL FUNDS PROVIDED: <b>\$0.00</b>			IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
CCO DESCRIPTION: OTDD-Temporary Bikepath Structure			PROJECT DESCRIPTION: YBITS-1 (Yerba Buena Island Transition Structures)	
Original Contract Time: <b>1390</b> Day(s)	Time Adj. This Change: <b>0</b> Day(s)	Previously Approved CCO Time Adjustments: <b>0</b> Day(s)	Percentage Time Adjusted: (including this change) <b>0</b> %	Total # of Unreconciled Deferred Time CCO(s): (including this change) <b>0</b>

**THIS CHANGE ORDER PROVIDES FOR:**

This change order provides compensation to the contractor for costs to initiate procurement of materials, fabrication of full panels for a test fit-up for the Oakland Touchdown Detour temporary bikepath, and additional panels upon successful completion of test fit-up.

This contract calls for the construction of the Yerba Buena Island Transition structures of the east span of the new San Francisco Oakland Bay Bridge (SFOBB). In a memo dated October 3, 2010, the Deputy Toll Bridge Program Manager recommended to the Toll Bridge Program Oversight Committee (TBPOC) that the Temporary OTD Eastbound Detour be done under Contract Change Orders (CCO's). This recommendation was approved by the TBPOC in their October 7, 2010 meeting. Subsequently, a Contract Change Order Implementation Strategy for \$51.5 Million was prepared and approved by the TBPOC in their February 3, 2011 meeting, and included a line item for this temporary bikepath. This strategy document has been updated multiple times to reflect the changing status, the most recent version (February 27, 2013, with total estimated cost \$41.0 million) includes a line item for the temporary bikepath CCO 564 with a budget estimate of \$1,668,000.

The Engineer has prepared drawings for a portion of the work, but the complete design (including railings and crossover structure) have not yet been issued. Due to concerns about this work being ready in time for the scheduled Labor Day 2013 Seismic Safety Opening of the bridge, this change order will be issued with the drawings completed to date to cover the estimated costs of procuring materials, initial panel fabrication for test fit-up, which will allow for a timely determination of optimal construction methods for the entire bikepath, and subsequent fabrication of panels after successful test fit-up. Elements of work excluded from this change order include traffic control, Krails, and storm water pollution prevention plans and measures.

Compensation for work associated with this change will be paid at extra work at force account. This change order provides funding for an estimated cost of \$500,000. This will be funded from the project's contingency fund. A cost analysis is on file.

This change was requested by Mike Whiteside, Branch Chief, Office of Toll Bridge design, on March 7, 2013.

No adjustment of contract time is warranted, as this change will not affect the controlling operation.

Maintenance concurrence is not required as this change does not affect any permanent work.



**CONTRACT CHANGE ORDER MEMORANDUM**

EA: 0120S4 CCO: 564 - 0

DATE: 3/5/2013

Page 2 of 2

<b>CONCURRED BY:</b>			<b>ESTIMATE OF COST</b>		
Construction Engineer:	Jeannie Balderramos <i>JB</i>	Date <i>3-12-13</i>	ITEMS	THIS REQUEST	TOTAL TO DATE
Bridge Engineer:	Gary Lai <i>Gary Lai</i>	Date <i>3-18-13</i>	FORCE ACCOUNT	\$0.00	\$0.00
Project Engineer:	Charles Ho	Date	AGREED PRICE	\$500,000.00	\$500,000.00
Project Manager:	Ken Terpstra	Date	ADJUSTMENT	\$0.00	\$0.00
FHWA Rep.:		Date	TOTAL	\$0.00	\$0.00
Environmental:		Date	<b>FEDERAL PARTICIPATION</b>		
Other (specify):	Mike Whiteside	Date	<input type="checkbox"/> PARTICIPATING <input type="checkbox"/> PARTICIPATING IN PART <input checked="" type="checkbox"/> NONE <input type="checkbox"/> NON-PARTICIPATING (MAINTENANCE) <input type="checkbox"/> NON-PARTICIPATING		
Other (specify):		Date	FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type)		
District Prior Approval By:		Date	<input type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS		
HQ (Issue/Approve) By:	Larry Salhaney	Date	FEDERAL FUNDING SOURCE    PERCENT		
Resident Engineer's Signature:	<i>William Howe</i>	Date <i>03-19-13</i>			

**CONTRACT CHANGE ORDER**

Change Requested by: Engineer

CCO: 564	Suppl. No. 1	Contract No. 04 - 0120S4	Road SF-80-12.7/13.2	FED. AID LOC.: NO FED AID
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**To: M C M CONSTRUCTION INC**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. **NOTE: This change order is not effective until approved by the Engineer.**

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.) Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time. This last percentage shown is the net accumulated increase or decrease from the original quantity in the Engineer's Estimate.

Construct portions of the Oakland Touchdown Detour Temporary Bike Path Structure in accordance with Sheet Nos. 3 through 20 of this change order for the San Francisco-Oakland East Span Seismic Safety Project Oakland Touchdown Detour, Bridge No. 33-25 and as described herein.

The Contract Plan sheets reflecting this change are 2R1, 3R1, 7, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 84, 85 and 86 of 100 (total of 18 plan sheets).

**Extra Work at Lump Sum:**

Provide labor, equipment and materials as required to construct the temporary bike path, crossover structure, and precast end panels, as shown in these drawings and as directed by the Engineer.

Work includes prepare shop drawings, procure materials as required, construct crossover structure and bike path panel sections and other work as directed by the Engineer.

Work also includes completion of the fabrication and installation of panels M1 through M12 that are shown on Contract Change Order No. 563, Supplement No. 0, drawings.

For this work, the Contractor shall be compensated an Agreed Lump Sum (Not To Exceed) \$1,500,000.00, which constitutes full and final compensation, including all markups, complete in place.

Extra Work at Agreed Lump Sum = \$1,500,000.00 (NOT TO EXCEED)

Estimated Cost: Increase ☒ Decrease ☐ \$1,500,000.00

By reason of this order the time of completion will be adjusted as follows: 0 days

**Submitted by**

Signature	Resident Engineer William Howe, Senior R.E.	Date
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**Approval Recommended by**

Signature	Region Construction Division Chief Tony Anziano	Date
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**Engineer Approval by**

Signature	Region Construction Division Chief Tony Anziano	Date
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We the undersigned contractor, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above.

**NOTE:** If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest within the time therein specified.

**Contractor Acceptance by**

Signature	(Print name and title)	Date
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**CONTRACT CHANGE ORDER MEMORANDUM**

DATE: 4/4/2013 Page 1 of 2

TO: Deanna Vilcheck, ACM /			FILE: E.A. 04 - 0120S4	
FROM: William Howe, Senior R.E.			CO-RTE-PM SF-80-12.7/13.2	
			FED. NO. NO FED AID	
CCO#: 564	SUPPLEMENT#: 1	Category Code: CHXX	CONTINGENCY BALANCE (incl. this change) <b>\$39,541,842.15</b>	
COST: <b>\$1,500,000.00</b> INCREASE <input checked="" type="checkbox"/> DECREASE <input type="checkbox"/>			HEADQUARTERS APPROVAL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
SUPPLEMENTAL FUNDS PROVIDED: <b>\$0.00</b>			IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
CCO DESCRIPTION: OTD-Temp.Bikepath Ramp Structure			PROJECT DESCRIPTION: YBITS-1 (Yerba Buena Island Transition Structures)	
Original Contract Time: <b>1390</b> Day(s)	Time Adj. This Change: <b>0</b> Day(s)	Previously Approved CCO Time Adjustments: <b>0</b> Day(s)	Percentage Time Adjusted: (including this change) <b>0</b> %	Total # of Unreconciled Deferred Time CCO(s): (including this change) <b>9</b>

**THIS CHANGE ORDER PROVIDES FOR:**

Constructing the temporary bike path ramp structure to provide bicycle and pedestrian access from the east approach in Oakland to the new San Francisco Oakland Bay Bridge east span.

The structure will provide access to the new east span when the bridge is opened to traffic over Labor Day Weekend of 2013. until the permanent bike path is constructed. The work is being performed under the YBITS1 contract as part of the construction of the Oakland Touchdown Detour and the cost falls within the current \$41,000,000.00 budget for the detour as approved by the Toll Bridge Program Oversight Committee (TBPOC).

The original Contract Change Order No. 564 S0, in the amount of \$500,000.00, was issued to furnish materials for the bike path panel sections and for constructing prototype panels. Contract Change Order No. 564 S1 will provide for the construction of the remaining panels and the crossover structure, which connects the upper end of the temporary ramp to the permanent bike path on the OTD1 structure.

The scope of work consists of constructing a 140 meter long and 5 meter wide timber approach structure with a wooden deck and concrete footings and a 30 meter long and 3 to 4 meter wide steel crossover structure with a concrete deck and concrete columns. Most of the structure will be constructed in segments prior to Labor Day Weekend and moved into place during the full closure of the bridge.

Compensation for this work will be paid as Extra Work at an Agreed Lump Sum (Not To Exceed) \$1,500,000.00, which shall be funded from the project's contingency fund. A cost analysis is on file.

No adjustment of contract time is warranted, as this change will not affect the controlling operation.

This change was requested by Mike Whiteside, Branch Chief, Office of Toll Bridge Design, on March 7, 2013.

Maintenance concurrence is not required as the change does not affect any permanent work.

**CONTRACT CHANGE ORDER MEMORANDUM**

EA: 0120S4 CCO: 564 - 1

DATE: 4/4/2013

Page 2 of 2

<b>CONCURRED BY:</b>			<b>ESTIMATE OF COST</b>		
Construction Engineer:	William Howe	Date	THIS REQUEST	TOTAL TO DATE	
Bridge Engineer:	Mehran Ardakanian	Date	ITEMS	\$0.00	\$0.00
Project Engineer:	Bob Zandipour, Design	Date	FORCE ACCOUNT	\$0.00	\$500,000.00
Project Manager:	Ken Terpstra	Date	AGREED PRICE	\$1,500,000.00	\$1,500,000.00
FHWA Rep.:		Date	ADJUSTMENT	\$0.00	\$0.00
Environmental:		Date	<b>TOTAL</b>	\$1,500,000.00	\$2,000,000.00
Other (specify):	Mike Whiteside	Date 3/7/13	<b>FEDERAL PARTICIPATION</b>		
Other (specify):		Date	<input type="checkbox"/> PARTICIPATING <input type="checkbox"/> PARTICIPATING IN PART <input checked="" type="checkbox"/> NONE <input type="checkbox"/> NON-PARTICIPATING (MAINTENANCE) <input type="checkbox"/> NON-PARTICIPATING		
District Prior Approval By:		Date	FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type)		
HQ (Issue Approve) By:		Date	<input type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS		
Resident Engineer's Signature:		Date	FEDERAL FUNDING SOURCE    PERCENT _____ _____ _____		







## Oakland Touchdown Detour CCOs to YBITS (04-0120S4)

### INTRODUCTION

This contract calls for the construction of the Yerba Buena Island Transition structures of the east span of the new San Francisco Oakland Bay Bridge (SFOBB). In a memo dated October 3, 2010, the Deputy Toll Bridge Program Manager recommended to the Toll Bridge Program Oversight Committee (TBPOC) that the Temporary OTD Detour be done under Contract Change Orders. This recommendation was approved by the TBPOC in their October 7, 2010 meeting. Subsequently, a Contract Change Order Implementation Strategy with a working budget of \$51 Million was presented to the TBPOC on February 03, 2011 and it was approved.

### SCOPE OF WORK

Scope of work currently associated with the Oakland Touchdown Detour project have been assigned into the following categories:

Category	Scope of Work	Approved budget (Feb. 24, 2011)	In Progress Status Update 08/26/2013	
		(Million)	Current Forecast (Million)	Delta (Million)
1	EB roadway and prep work budget	\$11.36	\$8.54	(\$2.82)
2	WB roadway and structure budget	\$25.69	\$23.99	(\$1.70)
3	Bridge Opening 2013 & Job wide Expenses	\$5.89	\$10.17	\$4.28
Subtotal		\$42.94	\$42.70	(\$0.24)
Contingency		\$8.06	\$0.00	(\$8.06)
Total		\$51	\$42.70	(\$8.30)

CCO payments to date as of June 24, 2013 are \$27.67 Million

There are approximately an additional \$4.44 million in non-CCO costs -- COZEEP, OCIP, Haz Waste removals -- that have been charged to the project to date, so total CCO + other expended to date = \$32.08 Million. As shown, the current status of the CCOs required to construct the Oakland Touchdown Detour is \$42.7M. The status of each category of work is discussed in the succeeding pages of this report.



**1. E/B ROADWAY AND PREP WORK**

CCO	Payment Method	Description	HQ Status	TBPOC Status	CCO Status	Approved Budget 02-03-2011	In Progress Status Update from Feb 3, 2011 Approved Budget	
							Current Estimated Amount	Current vs. 02-03-11 budget (Under budget = negative)
501	FA	Advance Utility Location and Identification	Issued	N/A	Executed 11/22/10	\$180,000	\$180,000	\$0
<b>502 and Supplements</b>								
502	FA	Advance Site Survey	Issued	N/A	Executed 11/22/10	\$300,000	\$150,000	
502s1	FA	Advance Site Survey--Supplemental funds	Issued	N/A	Executed 1/13/11	\$0	\$150,000	
502s2	FA	Site Survey--Supplemental funds	Issued	N/A	Executed 4/28/11	\$0	\$250,000	
502s3	FA	Site Survey--Supplemental funds	Issued	N/A	Executed 3/16/12	\$0	\$200,000	
<b>502 and Supplements subtotal</b>						<b>\$300,000</b>	<b>\$750,000</b>	<b>\$450,000</b>
503	FA	Traffic control for advance work	Issued	N/A	Executed 2/24/11	\$150,000	\$150,000	\$0
503s1	FA	Additional funds Traffic control	Issued	N/A	Executed 8/9/11		\$150,000	\$150,000
504	LS	Advance Geotechnical Investigation	Issued	N/A	Executed 3/30/11	\$41,866	\$41,866	\$0
505	FA	Relocate PG & E Electrical Lines	Issued	N/A	Executed 2/24/11	\$150,000	\$150,000	\$0
505s1	FA	Addl funds -- Relocate PG & E Electrical Lines	Issued	N/A	Executed 8/01/11		\$40,000	\$40,000
506	UP+FA	Pave Burma Road Extension	Issued	N/A	Executed 5/23/11	\$641,427	\$641,427	\$0
507	FA	SWPPP Measures (Burma Road and Eastbound work)	Issued	N/A	Executed 4/7/11	\$565,110	\$500,000	(\$65,110)
508	FA	Eastbound Phase I Advance Electrical	Issued	N/A	Executed 3/8/11	\$150,000	\$150,000	\$0
<b>509 and Supplements</b>								
509		EBMUD Sewer Outfall Pipe Overcrossing	Issued	N/A	Executed 5/25/11	\$690,000	\$996,441	
509s1		EBMUD Sewer Outfall Pipe Overcrossing--Concrete additive	Issued	Okd 6/2/11	Executed 6/6/11	\$0	\$50,023	
<b>509 and Supplements subtotal</b>						<b>\$690,000</b>	<b>\$1,046,464</b>	<b>\$356,464</b>
510	FA	Relocate Port of Oakland Electrical Duct	Issued	N/A	Executed 03/08/11	\$100,000	\$50,000	(\$50,000)
510s1	FA	Relocate Port of Oakland Electrical Duct	Issued	N/A	Executed 08/01/11	\$0	\$50,000	\$50,000
511	FA	Off-Haul and Disposal of Contaminated Soil	Issued	N/A	Executed 03/08/11	\$150,000	\$150,000	\$0
not reqd		Addl removal contaminated soil (Not Req'd)	N/A	N/A	N/A	\$51,750	\$0	(\$51,750)
512	Voided	Protective Cover Over PG & E Gas Line --Void (not req'd)	N/A	N/A	Not required	\$60,375	\$0	(\$60,375)
<b>513 528, 531 and 562</b>								
513	UP	Eastbound Roadway (inc drainage, AC, lane closures)	Issued	OK'd NTE \$2.5 Mill 4/7/2011; Final OK'd 5/5/11	Executed 06/03/11	\$3,032,846	\$2,011,269	
528	FA	AC QC	Issued	N/A	Executed 08/31/11	\$0	\$100,000	
531	FA	Buried Manmade Objects (for S1 see Westbound)	Issued	N/A	Executed 06/28/2011	\$0	\$100,000	
562	FA	Repair Pavement at Lanes 1 and 2 Eastbound	Issued	N/A	Executed 05/04/2012	\$0	\$50,000	
<b>513 528, 531 &amp; 562 subtotal</b>						<b>\$3,032,846</b>	<b>\$2,261,269</b>	<b>(\$771,577)</b>
514	FA	Dewatering	Issued	N/A	Executed 5/13/11	\$0	\$150,000	\$150,000
515	FA	Vibration and Crack Monitoring	Issued	N/A	Executed 3/14/11	\$0	\$50,000	\$50,000



516	FA	Eastbound Electrical inc Traffic Operations System; Lighting	Issued	N/A	Executed 09/07/2011	\$1,074,675	\$800,000	(\$274,675)
517	UP	AC Approach Ramps for EBMUD Overcrossing	Issued	N/A	Executed 06/03/2011	\$676,591	\$283,104	(\$393,487)
518	LS	Relocate changeable message sign (CMS)	Issued	N/A	Executed 07/12/2011	\$182,250	\$140,511	(\$41,739)
519	UP	Maintain Burma Road Maritime to Western End	Issued	N/A	Executed 4/29/11		\$260,660	\$260,660
519s1 not reqd	N/R	Maintain Burma Road Maritime to Western End -- Addl work -- Now not required	Not reqd	N/A	Not required		\$0	\$0
520	FA	Relocate ATT ducts	Issued	N/A	Executed 4/29/11	\$301,875	\$150,000	(\$151,875)
532	LS	ESA fences / protection	N/A	N/A	Executed 08/01/11	\$44,896	\$42,163	(\$2,733)
532s1	LS	Additional Gate for ESA fences	N/A	N/A	Executed 10/21/11		\$1,568	\$1,568
not reqd	EST	PG & E on exis frontage road (not reqd)	N/A	N/A	Not reqd	\$736,575	\$0	(\$736,575)
not reqd	EST	Other utility relocation: san, storm, MH's (not reqd)	N/A	N/A	Not reqd	\$368,287	\$0	(\$368,287)
<b>525 and 530</b>								
see 525 and 530		Ebound & Burma R/R Stripes, Markers, Pavement Delineation				\$93,054		
see 525 and 530		Eastbound Stripes, Markers, Signs, Detour Traffic Enhancements				\$533,140		
525	UP	Eastbound Striping	Issued	N/A	Executed 10/10/11		\$134,949	
530	UO	Eastbound Signs	Issued	N/A	Executed 10/10/11		\$62,306	
<b>525 &amp; 530 subtotal</b>		<b>Eastbound Signs and Striping</b>				<b>\$626,194</b>	<b>\$197,255</b>	<b>(\$428,939)</b>
537	N/R	Eastbound Roadway -- cancel (not required)	N/A	N/A	Not required	\$305,000	\$0	(\$305,000)
<b>523 (for Supplements see westbound section)</b>								
523	FA	R/Replace Krail (or type 60) with fence on top	Issued	N/A	Executed 05/20/11	\$421,742	\$150,000	
not reqd	EST	R/Replace chain link fence (not reqd)	N/A	N/A	Not required	\$353,556		
<b>523 subtotal</b>		<b>Eastbound K Rails</b>				<b>\$775,298</b>	<b>\$150,000</b>	<b>(\$625,298)</b>
<b>Subtotal 1. E/B ROADWAY AND PREP WORK</b>						<b>\$11,355,015</b>	<b>\$8,536,287</b>	<b>(\$2,818,728)</b>

## 2. WESTBOUND ROADWAY AND STRUCTURE

CCO	Payment Method	Description	HQ Status	TBPOC Status	CCO Status	Approved Budget 02-03-2011	In Progress Status Update from Feb 3, 2011 Approved Budget	
							Current Estimated Amount	Current vs. 02-03-11 budget (Under budget = negative)
521	EW@UP	FURNISH STEEL PILING (HP 360 X 132)	Issued	N/A	Executed 4/29/11	\$989,034	\$828,147	(\$160,887)
<b>543, 544 Stripes, Markers, Signs, Detour Traffic Enhancements</b>								
see below 543, 544		Westbound Stripes, Markers, Signs, Detour Traffic Enhancements	see below	N/A	see below	\$645,760		
543	EST	Westbound Signs	Issued	N/A	Executed 3/09/12		\$17,402	
544	UP	Westbound Stripes and Markers -- Stage 2 work	Issued	N/A	Executed 12/14/11		\$30,754	
544s1	EST	Westbound Stripes and Markers	Issued	N/A	Executed 3/05/12		\$249,076	
not reqd	N/R	Detour Traffic Enhancements -- Not reqd	N/A	N/A	Not written		\$0	
<b>543, 544, 549, 550 subtotal</b>						<b>\$645,760</b>	<b>\$297,232</b>	<b>(\$348,528)</b>
<b>536, 549, 550 Westbound Lane Closures</b>								
536	UP	Lane closures for Westbound	Issued	N/A	Executed 08/30/11	\$2,054,802	\$515,365	
536s1	UP	Lane closures for Westbound-- Supplemental Lane Charts (no cost)	Issued 4/26/12	N/A	Executed 04/26/12	\$0	\$0	
not reqd	N/R	Lane closures -- Supplement (now reduced to zero)	Not reqd	N/A	Not required		\$0	
549	LS+FA	Close the westbound bridge: Portable Changeable Message Signs	Issued	1/5/12 \$1.7 million (NTE) OK'd Final 2/1/2012 OK'd	Executed 02/03/12	\$0	\$1,462,883	
550	LS+FA	Close the westbound bridge: Traffic Control	Issued	N/A	Executed 02/23/12	\$0	\$287,960	
554	FA	OTDD Costs Related to Westbound Full Closure (President's Day Weekend 2012)	Issued	N/A	Executed 02/10/12	\$0	\$700,000	\$700,000
558	FA	OTDD Public Canvassing Costs Related to Westbound Full Closure (President's Day Weekend 2012)	Issued	N/A	Executed 01/26/12	\$0	\$80,000	\$80,000
<b>WESTBOUND LANE CLOSURE subtotal</b>						<b>\$2,054,802</b>	<b>\$3,046,208</b>	<b>\$991,406</b>
535	LS	Westbound Electrical inc Traffic Loops, Lights, Reconnect existing bridge structure electrical	Issued	N/A	Executed 2/10/12	\$1,652,463	\$380,357	(\$1,272,106)
not reqd	N/R	Supplemental Westbound Electrical--Not reqd	N/A	N/A	Not required		\$0	\$0
548	FA	Electrical Temporary Relocation of Electrical Lighting	N/A	N/A	Executed 12/09/11		\$150,000	\$150,000
534	LS	Westbound changeable message sign (CMS)	Issued	N/A	Executed 09/26/11	\$214,200	\$170,084	(\$44,116)
not reqd	N/R	Add overhead road sign -- not reqd	N/A	N/A	Not written	\$431,077	\$0	(\$431,077)



**523s1, 526 Westbound Roadway Work**

Note: CCO 526: \$6.1 million (NTE) has been approved by POC, that includes these line items. Portions of the work that are issued Individual CCO numbers are tracked as shown for each line item, total values shown on Subtotal line below

523s1	EST	K-Rail -- Supplement for Westbound Concrete Barrier	Issued	N/A	Executed 01/04/12	\$305,449	\$300,000	(\$5,449)
523s2	EST	K-Rail -- further supplement Westbound	Issued	N/A	Executed 03/13/12	\$0	\$50,000	\$50,000
see 526, 560, 561	EST	Westbound Chain Link Fence (scope now in 526)				\$545,210		(\$545,210)
560	LS	Westbound Chain Link Fence on Barrier Rail -- S Side	Issued	N/A	Executed 4/18/12		\$41,354	\$41,354
561	EST	Westbound Chain Link Fence -- VOIDED	N/A	N/A	Void		\$0	\$0
see 526	EST	Westbound Roadway Work (inc in 526)				\$4,742,448		(\$4,742,448)
see 526	EST	Westbound drainage (inc in 526 and 546)				\$582,159		(\$582,159)
541	UP+FA	Westbound Polyester Concrete Overlay	Issued	N/A	Executed 02/10/12	\$0	\$513,849	\$513,849
526	UP+FA	Westbound Roadway Work See *Note above	Issued	For Info 12/1/11 Ok'd	Executed 12/16/11	\$0	\$2,774,851	\$2,774,851
526s1	UP	Westbound Roadway Work -- Final Quanties	Issued	For Info 4/17/12 Ok'd	Executed 08/10/12	\$0	\$105,481	\$105,481
531s1	FA	Buried Manmade Objects (Supplemental funds for Westbound)	Issued	N/A	Executed 08/02/2012	\$0	\$95,000	\$95,000
545	LS	Health and Safety Measures	Issued	N/A	Executed 02/03/12	\$0	\$2,350	\$2,350
not reqd	N/R	Health and Safety Measures -- Future supplement -- not required	N/A	N/A	not reqd	\$0	\$0	\$0
546	FA	Temporary Drainage Measures	Issued	N/A	Executed 12/21/11	\$0	\$50,000	\$50,000
546s1	FA	Temporary Drainage Measures -- Supplement	N/A	N/A	Executed 4/4/12	\$0	\$100,000	\$100,000
553	FA	Temporary Roadway to Provide Safe Access	Issued	N/A	Executed 12/13/11	\$0	\$50,000	\$50,000
559	FA	Pavement Repair from W of OTDD to East of Temp Bypass Structure	Issued	N/A	Executed 03/05/12	\$0	\$150,000	\$150,000
<b>523s1, 526 subtotal</b>				<b>6/2/11 \$6.1 mil (NTE) OK'd</b>		<b>\$6,175,266</b>	<b>\$4,232,885</b>	<b>(\$1,942,381)</b>

**524 Westbound Structure Foundations**

\$3.5 million (NTE) has been approved by POC, that includes these listed line items. Total values are shown on the Subtotal line below

see 524		STRUCTURE EXCAVATION (BRIDGE)				\$553,859		(\$553,859)
see 524		STRUCTURE BACKFILL (BRIDGE)				\$194,642		(\$194,642)
see 524		DRIVE STEEL PILE (HP 360 X 132)				\$516,935		(\$516,935)
see 524		STRUCTURAL CONCRETE, BRIDGE FOOTING				\$1,439,540		(\$1,439,540)
see 524		BAR REINFORCING STEEL (BRIDGE)				\$684,000		(\$684,000)
524	UP	Westbound Structure Foundations -- Sonic drilling and drive piles portion	Issued	N/A	Executed 5/20/11	\$0	\$946,506	\$946,506
524s1	LS+FA	Westbound Structure Foundations -- Excavation, Backfill, Bar Reinforcing, Concrete	Issued	OK'd 8/03/2011	Executed 8/24/11	\$0	\$1,177,002	\$1,177,002
524s2	LS	Westbound Structure Foundations -- additional Sonic drilling, concrete, rebar changes	Issued	For Info 12/1/11 Ok'd	Executed 12/14/11	\$0	\$41,163	\$41,163
524 future sup.	N/R	Westbound Structure Foundations -- no further supplements	N/A	N/A	N/A	\$0	\$0	\$0
551	FA	Shore Exis Roadway at Bent E39	Issued	N/A	Executed 12/13/11	\$0	\$50,000	\$50,000
552	FA	Remove Traveler Rails under Existing Westbound	Issued	N/A	Executed 12/13/11	\$0	\$25,000	\$25,000
<b>524 Subtotal Westbound Foundations</b>				<b>5/5/11 \$3.5 mil (NTE) OK'd</b>		<b>\$3,388,976</b>	<b>\$2,239,671</b>	<b>(\$1,149,305)</b>
527	FA	Westbound advance Field Investigations and Potholing	Issued	N/A	Executed 5/20/11	\$0	\$180,000	\$180,000
533	FA	Lead Paint Abatement	Issued	N/A	Executed 9/1/11	\$0	\$150,000	\$150,000
533s1	FA	Lead Paint Abatement -- Supplemental	Issued	N/A	Executed 12/13/11	\$0	\$150,000	\$150,000
533s2	FA	Lead Paint Abatement -- Supplemental	Issued	N/A	Executed 04/23/12	\$0	\$300,000	\$300,000



<b>529 Westbound Support walls and Superstructure</b>								
<b>\$8.0 million (NTE) has been approved by POC, that includes these listed line items. Total values are shown on the Subtotal line below</b>								
see 529		STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)				\$109,849		(\$109,849)
529	UP	STRUCTURAL CONCRETE, BRIDGE Westbound Support Walls and Strap Beams	Issued	For Info 1/5/12 OK'd	Executed 2/8/12	\$2,877,760	\$2,968,027	\$90,267
539	FA	FURNISH STRUCTURAL STEEL (BRIDGE)	Issued	N/A	Executed 10/27/11	\$264,072	\$500,000	\$235,928
539 s1	FA	FURNISH STRUCTURAL STEEL (BRIDGE) Supplement added dwgs but not cost	Issued	N/A	Executed 12/09/11		\$0	\$0
539 s2	FA	FURNISH STRUCTURAL STEEL (BRIDGE) Supplement	Issued	2/1/2012: Total S0+S1+S2 = \$1.3 M OK'd	Executed 2/8/12		\$800,000	\$800,000
540	LS+FA	ERECT STRUCTURAL STEEL (BRIDGE)	Issued	For Info 12/1/11 OK'd	Executed 12/14/11	\$322,754	\$1,769,910	\$1,447,156
see 529		CONCRETE BARRIER (TYPE 732 MODIFIED)		Not reqd (use K Rail)		\$217,587		(\$217,587)
see 529		Westbound Mechanical and water lines				\$838,206		(\$838,206)
see 529		Surface Drainage and Groundwater Control from below the existing bridge				\$821,100		(\$821,100)
538	FA	Bridge Demolition Plan	Issued	N/A	Executed 10/10/11	\$0	\$50,000	\$50,000
see 529s1		FURNISH and ERECT PRECAST PRESTRESSED CONCRETE GIRDER				\$1,530,530		(\$1,530,530)
529s1	LS	Westbound Superstructure Work	Issued	Feb 1, 2012 Final OK'd	Executed 2/8/12	\$0	\$1,687,328	\$1,687,328
529s2	LS	Westbound Superstructure Work	Issued	Aug 21, 2012 Final OK'd	Sent to MCM for signature 8/27/12	\$0	\$235,683	\$235,683
557	LS	OTDD Westbound Structure -- Barrier Demolition (this was split off from 529 -- total costs tracked in subtotal below)	Issued	Request Feb 2012 NTE \$1.9M OK'd Final April 2012 Info only	Executed 2/09/12	\$1,022,002	\$49,473	(\$972,529)
557s1	LS+FA	OTDD Westbound Structure -- Demolition (this was split off from 529 -- total costs tracked in subtotal below)	Issued	Request Feb 2012 NTE \$1.9M OK'd Final April 2012 Info only	Executed 2/23/12		\$394,714	\$394,714
<b>529 subtotal Westbound Support Walls and Superstructure Work</b>				6/2/11 \$8.0 mill (NTE) Aug 21, 2012 Final 529s2 OK'd 2/1/2012: Addl \$1.9 mill (NTE) CCO 557 OK'd		<b>\$8,003,860</b>	<b>\$8,360,421</b>	<b>\$356,561</b>
542	EST	Relocate Column Bent E27 -- VOIDED (Scope moved to OTD 2 Project)	Void	N/A	Void	\$0	\$0	\$0



547	LS+FA	Bridge Jacking	Issued	1/5/12 \$1.2 million (NTE) OK'd Final 2/12/12 OK'd	Executed 2/14/12	\$0	\$1,196,590	\$1,196,590
507s1	FA	SWPPP measures (Supplemental) for Westbound work	Issued	N/A	Executed 8/31/2012	\$1,412,775	\$175,000	(\$1,237,775)
555	LS+FA	OTDD Westbound Precision Steel Cuts	Issued	N/A	Executed 2/10/12	\$0	\$398,160	\$398,160
555s1	LS	OTDD Westbound Precision Steel Cuts -- Supplement	Issued	N/A	Executed 8/31/2012	\$0	\$289,762	\$289,762
556	FA	OTDD Backfill at Existing Bridge Structure	Issued	N/A	Executed 2/08/12	\$0	\$350,000	\$350,000
Expenses	EST	State furnished Expenses: CONSTRUCTION ZONE ENHANCED ENFORCEMENT PROGRAM (COZEEP)	N/A	N/A	N/A	\$720,000	\$1,000,000	\$280,000
<b>Subtotal 2. WESTBOUND ROADWAY AND STRUCTURE</b>						<b>\$25,688,213</b>	<b>\$23,989,231</b>	<b>(\$918,982)</b>

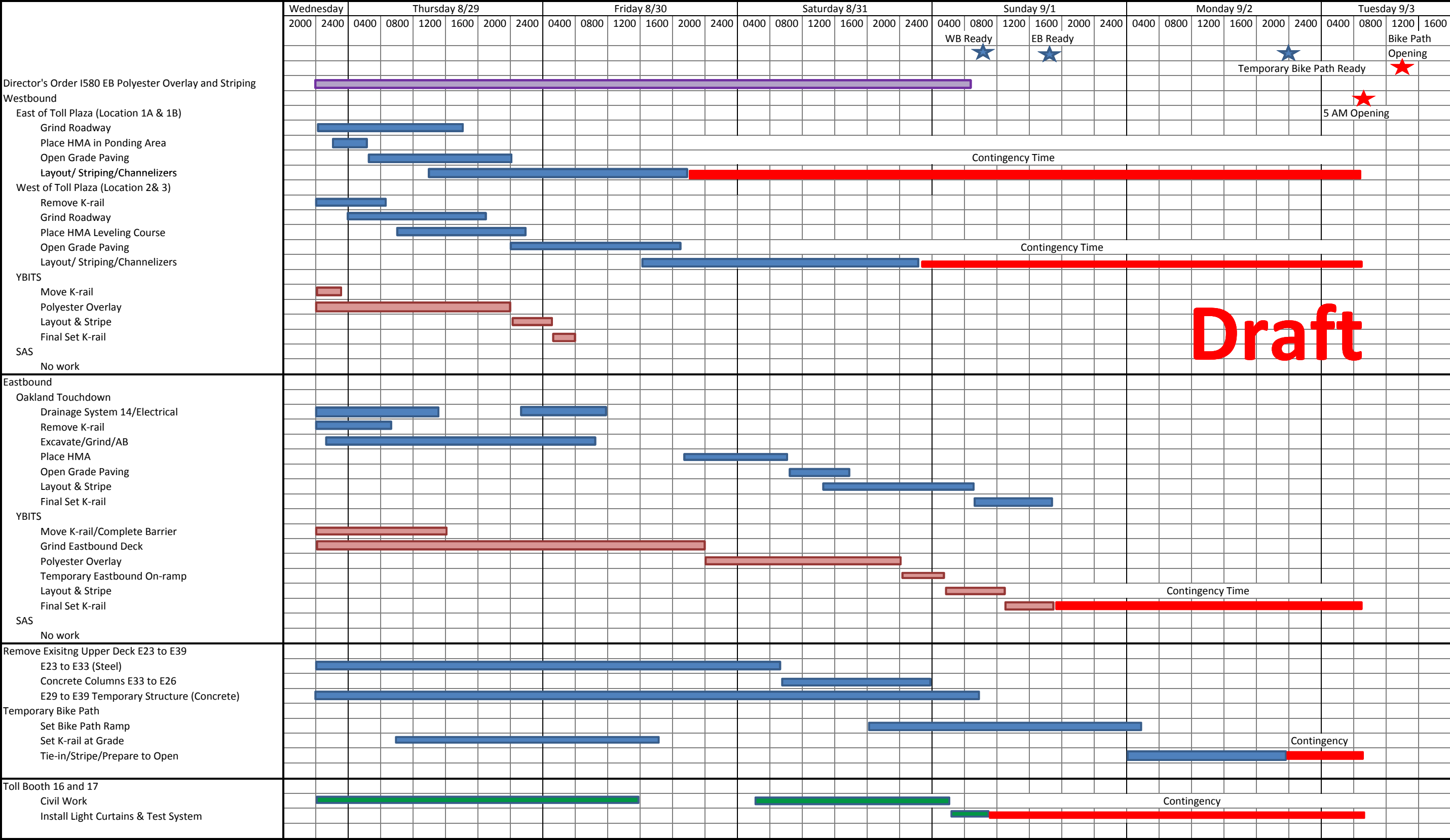
### 3. BRIDGE OPENING 2013 AND JOB WIDE EXPENSES

CCO	Payment Method	Description	HQ Status	TBPOC Status	CCO Status	Approved Budget 02-03-2011	In Progress Status Update from Feb 3, 2011 Approved Budget	
							Current Estimated Amount	Current vs. 02-03-11 budget (Under budget = negative)
564 Bikepath Ramp Structure								
see below 564, 564s1		Bikepath Ramp Structure (install during Seismic Safety changeover)	see below	Future	see below	\$630,000		
564	FA	Bikepath Ramp Structure (install during Seismic Safety changeover)	I&A 3-26-13	N/A	At contractor for signature		\$500,000	\$500,000
564s1	LS+FA	Bikepath Ramp Structure (install during Seismic Safety changeover)	I&A 8-26-13	4/11/13 \$1.5 million (NTE) OK'd	At contractor for signature		\$1,500,000	\$1,500,000
564s2	LS+FA	Bikepath Ramp Structure (install during Seismic Safety changeover)	Potential I&A	On agenda 8/27/13 \$1.5 million (NTE)	Not written		\$1,500,000	\$1,500,000
564 and Supplement(s) subtotal						\$630,000	\$3,500,000	\$2,870,000
563	EST	Bridge Removal Upper Deck and WB widening (during Seismic Safety changeover)	Potential I&A	On agenda 8/27/13 \$3.227 M	Not written	\$3,462,000	\$3,227,800	(\$234,200)
Expenses	EST	State furnished Expenses: Owner Controlled Insurance Program (OCIP)	N/A	N/A	N/A	\$1,800,000	\$1,500,000	(\$300,000)
Expenses	EST	State furnished Expenses: On Call Hazardous Materials removals	N/A	N/A	N/A	\$0	\$1,939,851	\$1,939,851
Subtotal 3. BRIDGE OPENING 2013 AND JOB WIDE EXPENSES						\$5,892,000	\$10,167,651	\$7,775,651

<b>4. SUMMARY</b>			
	Current budget (Feb. 24, 2011)	In Progress Status Update from Feb 24, 2011 Approved Budget	
		Current	Delta
Subtotal 1. E/B ROADWAY AND PREP WORK	\$11,355,015	\$8,536,287	(\$2,818,728)
Subtotal 2. WESTBOUND ROADWAY AND STRUCTURE	\$25,688,213	\$23,989,231	(\$1,698,982)
Subtotal 3. BRIDGE OPENING 2013 AND JOB WIDE EXPENSES	\$5,892,000	\$10,167,651	\$4,275,651
<b>SUBTOTAL</b>	<b>\$42,935,228</b>	<b>\$42,693,169</b>	<b>\$4,037,941</b>
<b>CONTINGENCY</b>	<b>\$8,064,772</b>	<b>\$0</b>	<b>(\$8,064,772)</b>
<b>TOTAL</b>	<b>\$51,000,000</b>	<b>\$42,693,169</b>	

SFOBB Bridge Closure August 28, 2013  
Wednesday - 8PM to Tuesday - 5AM  
Summary Schedule

23-August-2013 DraftR1



Draft



GRIND, PAVE, STRIPE

WEEKEND WORK

DRAFT

TOLL PLAZA

PERMANENT BARRIER BEFORE WEEKEND

FWI - WB GRIND & REPLACEMENT TO METERING LIGHTS BY CCO FUNDED BY TOLL BRIDGE REHAB ON OTD2 CONTRACT

- COLD PLANE
- PLACE 30mm HMA (OG) SURFACE
- PAVEMENT DELINEATION

K-RAILS INSTALLED DURING THE WEEKEND

K-RAILS INSTALLED PRIOR TO THE WEEKEND

(MCM)  
★ REMOVE PORTION OF STRUCTURE

OLD BRIDGE DEMOLITION (LEAD)

PERMANENT BARRIER BEFORE WEEKEND

1A

1B

2

3

EB

WB

EB

BIKE PATH SEGMENT 3

MAINTENANCE ROAD

BURMA RD.

TEMP. BIKE PATH

YBJ-2 ACCESS

BURMA RD.

EB COMPLETED (STAGE 1)

TEMP. BIKE PATH RAMP

- ★ CONSTRUCT REMAINING PORTION OF EB-80 ROADWAY AND DRAINAGE SYSTEM
- ★ COLD PLANE EB-80 E LINE
- ★ PLACE 30 mm HMA (OG) SURFACE
- ★ PLACE TEMP RAILING (TYPE K) W/ SCREEN
- ★ PLACE TEMP/PERMANENT PAVEMENT DELINEATION

- ★ ERECT TEMP. BIKE PATH RAMP (MCM)
- ★ PLACE K-RAILS AT GRADE (FWI)
- ★ INSTALL DELINEATION

★ TEMP. BIKE PATH CROSSOVER PRIOR TO WEEKEND (MCM)



**K-RAIL (INSTALL MONDAY NIGHT)**



**EASTBOUND ROUTE 80  
(LOWER DECK)**

